



LABORATORY REPORT

Prepared For: Brown & Caldwell Project: Florence Copper 140753

201 E. Washington St., Ste. 500

Phoenix, AZ 85004

Attention: Barbara Sylvester Sampled: 09/30/11 Received: 09/30/11

Issued: 10/12/11 16:46

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI1885-01	M22-0	Water
PUI1885-02	049-GL	Water

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica

Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

N1-Sample filtration for dissolved analytes was performed by laboratory. The regulatory requirement is

filtration within fifteen minutes of sampling.

COMMENTS: Results that fall between the MDL and RL are 'E4' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Tina Paulauskas Project Manager



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1885-01 (M22-0 - Water) Reporting Units: mg/l	ED 1 200 7	1110212	0.20	2.0	5 0		10/07/11	10/10/11	N1
Magnesium Sample ID: PUI1885-02 (049-GL - Water)	EPA 200.7	11J0312	0.20	2.0	5.9	I	10/07/11	10/10/11	N1
Reporting Units: mg/l Magnesium	EPA 200.7	11J0312	0.20	2.0	10	1	10/07/11	10/10/11	



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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1885-01 (M22-0 - Water)									
Reporting Units: mg/l									
Fluoride	EPA 300.0	11I1124	N/A	0.40	0.72	1	09/30/11	09/30/11	
Sulfate	EPA 300.0	1111124	N/A	2.00	59.1	1	09/30/11	09/30/11	
Total Dissolved Solids	SM 2540C	11J0105	N/A	20	420	1	10/04/11	10/04/11	
Sample ID: PUI1885-02 (049-GL - Water)									
Reporting Units: mg/l									
Fluoride	EPA 300.0	11I1124	N/A	0.40	0.49	1	09/30/11	09/30/11	
Sulfate	EPA 300.0	11I1124	N/A	2.00	81.1	1	09/30/11	09/30/11	
Total Dissolved Solids	SM 2540C	11J0105	N/A	20	550	1	10/04/11	10/04/11	



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METHOD BLANK/QC DATA

DISSOLVED METALS

		Reporting			Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11J0312 Extracted: 10/07/11											
Blank Analyzed: 10/10/2011 (11J0312-BL	K1)										
Magnesium	ND	2.0	0.20	mg/l							
Blank Analyzed: 10/10/2011 (11J0312-BL	K2)										
Magnesium	ND	2.0	0.20	mg/l							
Blank Analyzed: 10/10/2011 (11J0312-BL	K3)										
Magnesium	ND	2.0	0.20	mg/l							
LCS Analyzed: 10/10/2011 (11J0312-BS1))										
Magnesium	20.9	2.0	0.20	mg/l	21.0		100	85-115			
LCS Dup Analyzed: 10/10/2011 (11J0312-	-BSD1)										
Magnesium	20.7	2.0	0.20	mg/l	21.0		98	85-115	1	20	
Matrix Spike Analyzed: 10/10/2011 (11J0	312-MS1)				Sour	ce: PUJ0	437-01				
Magnesium	37.4	2.0	0.20	mg/l	21.0	17.0	97	70-130			
Matrix Spike Dup Analyzed: 10/10/2011 (11J0312-MSD	01)			Sour	ce: PUJ0	437-01				
Magnesium	36.8	2.0	0.20	mg/l	21.0	17.0	94	70-130	2	20	



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METHOD BLANK/QC DATA

INORGANICS

Amalista		Reporting	MDI	II	Spike	Source	0/ DEC	%REC	DDD	RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11I1124 Extracted: 09/30/11											
Blank Analyzed: 09/30/2011 (11I1124-BL	K1)										
Fluoride	ND	0.40	N/A	mg/l							
Sulfate	ND	2.00	N/A	mg/l							
LCS Analyzed: 09/30/2011 (11I1124-BS1)											
Fluoride	4.06	0.40	N/A	mg/l	4.00		101	90-110			
Sulfate	21.0	2.00	N/A	mg/l	20.0		105	90-110			
LCS Dup Analyzed: 09/30/2011 (1111124-	BSD1)										
Fluoride	4.06	0.40	N/A	mg/l	4.00		102	90-110	0.2	20	
Sulfate	21.1	2.00	N/A	mg/l	20.0		105	90-110	0.1	15	
Matrix Spike Analyzed: 09/30/2011 (11111	124-MS1)				Sour	ce: PUI18	850-04				
Fluoride	4.48	0.40	N/A	mg/l	4.00	0.416	102	80-120			
Sulfate	51.7	2.00	N/A	mg/l	20.0	29.8	109	80-120			
Matrix Spike Dup Analyzed: 09/30/2011 (11I1124-MSD	1)			Sour	ce: PUI18	850-04				
Fluoride	4.52	0.40	N/A	mg/l	4.00	0.416	103	80-120	0.8	20	
Sulfate	51.9	2.00	N/A	mg/l	20.0	29.8	110	80-120	0.4	15	
Batch: 11J0105 Extracted: 10/04/11											
Blank Analyzed: 10/04/2011 (11J0105-BL	K1)										
Total Dissolved Solids	ND	20	N/A	mg/l							
LCS Analyzed: 10/04/2011 (11J0105-BS1)											
Total Dissolved Solids	930	20	N/A	mg/l	1000		93	80-115			

TestAmerica Phoenix

Tina Paulauskas Project Manager



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METHOD BLANK/QC DATA

INORGANICS

		Reporting			Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11J0105 Extracted: 10/04/11											
LCS Dup Analyzed: 10/04/2011 (11J0105-	BSD1)										
Total Dissolved Solids	914	20	N/A	mg/l	1000		91	80-115	2	10	
Duplicate Analyzed: 10/04/2011 (11J0105-	DUP1)				Sour	ce: PUI10	688-01RI	E 1			
Total Dissolved Solids	63100	1000	N/A	mg/l		63200			0.2	10	



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DATA QUALIFIERS AND DEFINITIONS

See case narrative. **N1**

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference



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Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 200.7	Water		X
EPA 300.0	Water		X
SM 2540C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

CHAIN OF CUSTODY FORM

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

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Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project.

Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.